

CENTRE FOR DISTANCE AND ONLINE EDUCATION

Aligarh Muslim University, Aligarh
Session: January 2020
B.Sc. (Computer Science), Semester-IInd
COMPULSORY ENGLISH
(EN-102)

Total Marks: 10

Attempt any Two questions.

1. Write a paragraph describing your visit at Taj Mahal in Agra.
2. Write a letter to the Editor of a local newspaper highlighting the menace of open garbage system in your locality.
3. Write a conversation between yourself and your friend inviting him/her for tea at your house.
4. Write a short note on Summarizing.

Note: Send the Soft Copy of Assignment on cdeonlineassignments@gmail.com OR submit Hard Copy in CDOE Office, AMU, Aligarh.

CENTRE FOR DISTANCE AND ONLINE EDUCATION

Aligarh Muslim University, Aligarh
Session: January 2020
B.Sc. (Computer Science), Semester-IInd
Advance Calculus
(MM-201)

Total Marks: 20

Attempt any two questions.

1. Find the n^{th} order derivative of:

$$y = (ax + b)^m$$

or

$$y = \frac{1}{1 - x^2}$$

2. Explain Maclaurin's Theorem with suitable examples.
3. Differentiate between Gamma Γ and Beta β functions, proof that:

$$\beta(m, n) = \frac{\Gamma(m)\Gamma(n)}{\Gamma(m+n)}$$

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Session: January 2020
B.Sc. (Computer Science), Semester-IInd
Advance Differential Equation
(MM-202)

Total Marks: 20

Attempt any two questions.

1. Use Eulers method to solve for $y[0.1]$ from $y'' = x+y+2xy$, $y(0)=1$ with $h = 0.02$. Also estimate how small h would need to obtain four-decimal accuracy.
2. Solve the differential equation $(3xy+y^2)dx+(x^2+xy)dy=0$.
3. Find the General Integral of the PDE

$$(2xy-1)z_x+(z-2x^2)z_y = 2(x-yz)$$

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CENTRE FOR DISTANCE AND ONLINE EDUCATION

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Session: January 2020
B.Sc. (Computer Science), Semester-IInd
Descriptive Statistics
(ST-201)

Total Marks: 20

Attempt any two questions.

1. Discuss the Ratio Data.
2. What are Index Numbers? Discuss the uses of Index Numbers.
3. Discuss the Time Series Analysis.

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Aligarh Muslim University, Aligarh
Session: January 2020
B.Sc. (Computer Science), Semester-IInd
Probability & Probability Distribution
(ST-202)

Total Marks: 20

Attempt any two questions.

1. Write the short notes on following:
(a) Continuous Random Variable (b) Probability Density Function
(c) Expectation and Variance (d) Standard Continuous Distributions
(e) Covariance and Correlation
2. Explain the following:
(a) Two Dimensional Random Variable (b) Marginal and Conditional Distributions
(c) Bivariate Normal Distribution and its properties
3. What is Central Limit Theorem, Find the probability that the sample mean is between 85 and 92.

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CENTRE FOR DISTANCE AND ONLINE EDUCATION

Aligarh Muslim University, Aligarh
Session: January 2020
B.Sc. (Computer Science), Semester-IInd
Computer Fundamental
(CC-201)

Total

Marks: 20

Attempt any two questions.

1. Explain about Web Browser.
2. What is an Operating System?
3. What is Internet working? Explain Repeaters, Bridges and Routers.

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CENTRE FOR DISTANCE AND ONLINE EDUCATION

Aligarh Muslim University, Aligarh
Session: January 2020
B.Sc. (Computer Science), Semester-IInd
Structured Programming Using 'C'
(CC-202)

Total Marks: 20

Attempt any four questions.

1. Write algorithm to:
 - (a) Compute GCD of two integers in recursive mode.
 - (b) Implement Tower of Hanoi
 - (c) Test whether a number is prime or not by Rabin Miller test method.
2. Write a 'C' program to compute:
 - (a) Sum of first n natural number
 - (b) Whether a number is Armstrong or not
3. Explain pointers, their use and pointer to a pointer. What is dynamic memory allocation? Explain *malloc*, *calloc* and *free* function.

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